

## HIM Program Course Descriptions Fall 2017

### Course Descriptions:

#### AH 290. MEDICAL TERMINOLOGY. (2)

A course designed to acquaint the student with the specialized language of medicine and to develop communication skills in areas where use of medical terms is necessary and appropriate.

#### BDAN 310. BUSINESS DATA ANALYTICS. (3)

Prerequisite: CIS 243.

An introduction to the application of data analytics methods to business issues. Topics include business case studies, data analytics, model building techniques, and communications of results. Course Fee

#### BDAN 330. STRUCTURED DATA ANALYSIS. (3)

Prerequisite: CIS 243.

An introduction to the practical analysis and interpretation of different forms of data, emphasizing how and when to use particular tools, techniques, and metrics to maximize decision-making. Course Fee

#### BDAN 410. DECISION SUPPORT SYSTEMS ANALYSIS AND DESIGN. (3)

Prerequisite; CIS 243.

An exploration of the analysis and design processes used to develop and deploy decision support systems (DSS) in businesses, which are technology-based tools that support decision-making activities. Course Fee

#### BDAN 420. DATA MINING. (3)

Prerequisite: BI 310

An introduction to data mining and the demonstration of extraction principles from data stored in large heterogeneous volumes and how organizations can analyze data from multiple perspectives. Course Fee.

#### BDAN 430. DATA VISUALIZATION AND DIGITAL DASHBOARDS. (3)

Prerequisite: BI 310

An introduction to the accumulation, analysis, and visualization of complex data sets for businesses, including the analysis of complex data sets and developing digital dashboards and scorecards. Course Fee

#### BIOL 131. HUMAN ANATOMY AND PHYSIOLOGY. (4)

A basic anatomy and physiology course designed for students in physical education and health science careers. Emphasis is placed upon the concept of homeostasis and relationship of structure and function. Course Fee | Colonnade E-NS (SL) | NS | SL

#### CIS 141. BASIC COMPUTER LITERACY. (3)

An introduction to the breadth of information technology and the role of computer based devices for everyday problem solving in life, work and research. Practical experience with current as well as emerging technologies is provided. Students who have earned credit in CSCI 145C may not enroll in CIS 141. Course Fee

CIS 243. PRINCIPLES OF MIS. (3)

Prerequisite: CIS 141 or CSCI 145C

The basis of information systems and how they fit into a decision-making environment. An introduction to systems analysis in relation to managing information systems. Strategic uses of information technology throughout the business enterprise. Course Fee

CIT 310. SYSTEMS ARCHITECTURE I. (3)

Prerequisite: CIT 300. (Prerequisite waived for HIM majors)

Introduction to applied technology and computer architecture. Emphasis will be on hardware specification and selection, troubleshooting, maintenance and optimizing system performance.

CIT 330. SYSTEMS DEVELOPMENT I. (3)

Prerequisite: CIT 300. (Prerequisite waived for HIM majors)

Emphasis on developing structured system applications and program logic. Assumes no prior experience with system development and does not focus on any particular language.

CIT 332. SYSTEMS DEVELOPMENT II. (3)

Prerequisite: CIT 330.

Study of system development tools commonly used in businesses and organizations. Topics include interfacing systems with databases and web applications.

CIT 350. DATABASE ADMINISTRATION I. (3)

Prerequisite: CIT 300. (Prerequisite waived for HIM majors)

Introduction to database applications and related fundamentals including database models, normalization and principles of effective database design.

CIT 352. DATABASE ADMINISTRATION II. (3)

Prerequisite: CIT 350.

A continuation of CIT 350 with emphasis on developing distributed database solutions, client-server models for business use and advanced SQL.

CIT 492. TECHNOLOGY MANAGEMENT I. (3)

Prerequisites: CIT 300 and permission of instructor. (Prerequisite waived for HIM majors)

Examines the management of technological projects including planning, implementation, control, quality, time and budget.

CS 157. INFORMATION SECURITY I. (3)

An introduction to the concepts, issues, and essential skills of computer security. Topics include computer-based systems, Internet communications, networking, and security. Laboratory sessions will be held as needed. May not be counted toward a computer science major or minor.

CSCI 145C. INTRODUCTION TO COMPUTING. (3)

Prerequisite: Completion of PCC curriculum in algebra.

An introduction to the use of the computer that explores what a computer is, what it can do, and how it does it. The following topics are surveyed: hardware, software, telecommunications, programming languages, software development, a short history of computing, and the computer's impact on society.

Projects in word processing, spreadsheets, file management, and BASIC are assigned. Not acceptable for credit in computer science major or minor. Course Fee.

**HCA 340. HEALTHCARE ORGANIZATION AND MANAGEMENT. (3)**

Examines the historic, social, political, and economic factors that shape the U.S. health care delivery system. Topics include the components of the healthcare delivery system such as medical office practices, hospitals, and long-term healthcare systems. Included are financial and non-financial resources found in the U.S., concepts of public health, quality of care and outcomes measurement, and strategies for improving access to care. The role of health care administration as critical to the system will be stressed.

**HIM 100. HEALTH DATA CONTENT AND STRUCTURE (4)**

Emphasis on the health information profession, interdisciplinary relationships, health care data management, documentation standards, and methods of access and retention of image-based information and maintenance of health information in acute and non-acute care facilities. Procedures for maintaining vital statistics and specialized registries will be included. Course Fee

**HIM 225. LEGAL ISSUES IN HEALTH INFORMATION MANAGEMENT. (2)** Advanced course relating concepts and principles of law, the health record as a legal document, confidential communication, consents and authorization, release of information and current trends in health legislation.

**HIM 230. COMPUTER SYSTEMS AND APPLICATIONS IN HEALTH INFORMATION MANAGEMENT (3)**

Prerequisites: HIM 100 and CIS 141 or CSCI 145C.

Exploration of computer systems for health information management, with emphasis on the electronic health record. Various HIM software applications will be utilized. Course Fee

**HIM 250. INTERNATIONAL CLASSIFICATION OF DISEASES (ICD) CODING. (4)**

Prerequisites: HIM 100, AH 290, BIO 131C, or consent of the instructor.

Discussion of various nomenclature and classification systems. Guidelines used to assign codes to diseases and operations in the current ICD classification system.

**HIM 251. HEALTHCARE COMMON PROCEDURE CODING SYSTEM/CURRENT PROCEDURAL TERMINOLOGY (HCPCS/CPT) CODING. (4)**

Prerequisite: HIM 100 or consent of instructor.

Application of HCPCS/CPT coding principles to outpatient reimbursement systems.

**HIM 252. HEALTHCARE PAYMENT SYSTEMS. (3)**

Overview of management of health care payment systems including insurances, billing and collection processes, case mix analysis, corporate compliance, HIPAA, and other current reimbursement issues.

**HIM 290. MEDICAL TERMINOLOGY. (2)**

A course designed to acquaint the student with the specialized language of medicine and to develop communication skills in areas where use of medical terms is necessary and appropriate.

HIM 291. PATHOPHYSIOLOGY AND ADVANCED MEDICAL TERMINOLOGY. (3)

Prerequisite: AH 290 or HIM 290 or consent of instructor.

Terminology of diseases, operations and treatment modalities.

HIM 292. PHARMACOLOGY AND LABORATORY DIAGNOSTICS. (2)

Study of pharmacology, laboratory tests and diagnostics as they relate to the management of health information.

HIM 330. ELECTRONIC HEALTH RECORD SYSTEMS. (3)

Prerequisites: HIM 100, HCA 340, CD 280, NUR 105, SWK 205 or other introductory health profession course approved by instructor.

Utilization, application, analysis, and evaluation of an electronic health record system for data collection, communication, storage, reporting, and exchange of health information.

HIM 350. HEALTH INFORMATICS RESEARCH. (3)

Prerequisites: HIM 230, PH 383, HCA 340.

Applies principles and methods of scientific research to selected topics in health informatics and relevant healthcare issues.

HIM 351. INTERNATIONAL CLASSIFICATION OF DISEASES (ICD-10) CODING. (1)

Prerequisites: Open only to matriculated baccalaureate degree Health Information Management (HIM) students. Course provides students with opportunities to learn and apply guidelines of ICD-10-CM and ICD-10-PCS coding.

HIM 421. HEALTH INFORMATION LEADERSHIP AND MANAGEMENT (3)

Prerequisites: Junior standing in HIM BS program

Application, evaluation, and creation of operational, managerial, and strategic planning for health information including project management, budgeting, human resources, professional development, and other administrative functions.

HIM 422. CLINICAL EVALUATION AND OUTCOMES. (3)

Prerequisites: PH 383, HIM 221 or equivalent or permission of instructor.

Advanced course in applying measurements, evaluations, and reports to processes, structures, and outcomes in improving the efficiency and effectiveness of health information management and clinical services.

HIM 430. HEALTH DATA MANAGEMENT AND ANALYTICS. (3)

Prerequisites: HIM 330 and one of the following: HIM 230, HCA 446 and 447, CIT 350, BDAN 330, or INS 272.

Acquisition, analysis, display, interpretation, reporting, transformation, and management of healthcare data to respond to needs, trends, and changes in clinical practice, management, health care quality, regulations, legislation, accrediting bodies and marketplace.

HIM 450. APPLICATION & ANALYSIS OF HIM THEORY. (3)

Prerequisite: Open only to matriculated baccalaureate degree Health Information Management (HIM) students.

Advanced study in application and analysis of HIM theory in healthcare settings. Must be taken in semester prior to enrollment in HIM 495 Capstone PPE.

HIM 495. CAPSTONE PROFESSIONAL PRACTICE EXPERIENCE. (3-6)

Prerequisites: Completion of all HIM baccalaureate degree required courses

Professional practice experience in a health-related setting. Students are responsible for their own travel. \*\*Lab component required

PH 383. BIostatISTICS IN THE HEALTH SCIENCE. (3)

Prerequisite(s): MATH 109 or MATH 116 or higher.

Introduction to statistical methods, scientific structure of study design, hypothesis formation and verification and study classification. Includes descriptive statistics, data presentation, data sources, questionnaire construction, interviewing techniques and use of computer technology.